Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L10	1328	user with creat$4 with map	US-PGPUB; USPAT	OR	ON	2005/04/14 11:56
L13	9	map with metadata with variable	US-PGPUB; USPAT	OR	ON	2005/04/14 11:56
L14	1	10 and 13	US-PGPUB; USPAT	OR	ON	2005/04/14 11:56
L15	381	map with based with name	US-PGPUB; USPAT	OR	ON	2005/04/14 11:56
L16	35	10 and 15	US-PGPUB; USPAT	OR	ON	2005/04/14 11:58
L17	35	16 not 14	US-PGPUB; USPAT	OR	ON	2005/04/14 12:01
L18	6870	creat$4 near2 map	US-PGPUB; USPAT	OR	ON	2005/04/14 12:01
L19	54	18 and 15	US-PGPUB; USPAT	OR	ON	2005/04/14 12:01
L20	38	19 not 17	US-PGPUB; USPAT	OR	ON	2005/04/14 12:01
L21	38	20 not 14	US-PGPUB; USPAT	OR	ON	2005/04/14 13:32
L22	5	creat$4 with map with (prior or before) with data with receiv$4	US-PGPUB; USPAT	OR	ON	2005/04/14 12:08
L23	1328	user with creat$4 with map	US-PGPUB; USPAT	OR	ON	2005/04/14 12:08
L25	3	user with creat$4 with map with (prior or before) with receiv$4	US-PGPUB; USPAT	OR	ON	2005/04/14 12:08
L29	503	user with (creat$4 near2 map)	US-PGPUB; USPAT	OR	ON	2005/04/14 13:06
L30	437	creat$4 with (prior or before) with data with receiv$4	US-PGPUB; USPAT	OR	ON	2005/04/14 13:06
L32	24	user with (creat$4 near2 map) with first	US-PGPUB; USPAT	OR	ON	2005/04/14 13:09
L33	120562	mapping	US-PGPUB; USPAT	OR	ON	2005/04/14 13:09
L34	17	32 and 33	US-PGPUB; USPAT	OR	ON	2005/04/14 13:12
L35	254	map with based with (data or metadata) with (name or variable)	US-PGPUB; USPAT	OR	ON	2005/04/14 13:13
L36	77	35 and (creat$4 with map)	US-PGPUB; USPAT	OR	ON	2005/04/14 13:13
L37	23	35 and (creat$4 with map with user)	US-PGPUB; USPAT	OR	ON	2005/04/14 13:25
L38	35	user with creat$4 with map with receiv$4 with (data or document)	US-PGPUB; USPAT	OR	ON	2005/04/14 13:26

L39	17	38 and mapping	US-PGPUB; USPAT	OR	ON	2005/04/14 13:26
L40	16	39 not 37	US-PGPUB; USPAT	OR	ON	2005/04/14 13:26
L41	675	user with creat$4 with mapping	US-PGPUB; USPAT	OR	ON	2005/04/14 13:32
L43	244	user with (creat$4 adj3 mapping)	US-PGPUB; USPAT	OR	ON	2005/04/14 13:35
L44	397	map$4 with based with (data or metadata or document) with (name or variable)	US-PGPUB; USPAT	OR	ON	2005/04/14 13:34
L45	6	43 and 44	US-PGPUB; USPAT	OR	ON	2005/04/14 13:34
L46	677	map$4 with based with name	US-PGPUB; USPAT	OR	ON	2005/04/14 13:34
L47	18	43 and 46	US-PGPUB; USPAT	OR	ON	2005/04/14 13:34
L48	13	47 not 45	US-PGPUB; USPAT	OR	ON	2005/04/14 13:34
L49	3	user with (creat$4 adj3 mapping) with (prior or before)	US-PGPUB; USPAT	OR	ON	2005/04/14 13:39
L50	66	(map$4 adj3 based) with (document or data or metadata) with (name or variable)	US-PGPUB; USPAT	OR	ON	2005/04/14 13:40
L51	43	(map$4 adj2 based) with (document or data or metadata) with (name or variable)	US-PGPUB; USPAT	OR	ON	2005/04/14 13:40
L52	43	(map$4 adj2 based) with (data or metadata) with (name or variable)	US-PGPUB; USPAT	OR	ON	2005/04/14 13:40
L54	30	(map$4 adj2 based) with (data or metadata) with (name)	US-PGPUB; USPAT	OR	ON	2005/04/14 13:47
L55	3	database with predetermin$4 with value with metadata	US-PGPUB; USPAT	OR	ON	2005/04/14 13:48
L56	425	database with predetermin$4 with value with data	US-PGPUB; USPAT	OR	ON	2005/04/14 13:48
L57	168	database with (predetermin$4 adj2 value) with data	US-PGPUB; USPAT	OR	ON	2005/04/14 13:48
L58	168	57 not 55	US-PGPUB; USPAT	OR	ON	2005/04/14 13:48
L59	17	obtain$4 with database with (predetermin$4 adj2 value) with data	US-PGPUB; USPAT	OR	ON	2005/04/14 13:48
L60	243	(715/515).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/04/14 15:58
S60	1955	(715/513).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/04/13 15:10

S61	3570	(709/223).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/04/13 15:10

Terms used **generating electronic data interchange documents** Found **101,427** of **153,034**

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1 Evolution of an APL electronic document interchange system: over 19 years, 3000 installations, 100M documents, 5000 updates and 29,000 data labels

Georges Brigham

June 2002 **ACM SIGAPL APL Quote Quad , Proceedings of the 2002 conference on APL: array processing languages: lore, problems, and applications**, Volume 32 Issue 4

Full text available: pdf(92.73 KB) Additional Information: full citation, references

2 Managing electronic interchange of business documents

Snehamay Banerjee, Ram L. Kumar

July 2002 **Communications of the ACM**, Volume 45 Issue 7

Full text available: pdf(112.37 KB) html(30.21 KB) Additional Information: full citation, abstract, references, citings, index terms

Establishing a framework for controlled growth of electronic document interchange, based on a diverse set of technological, organizational, and interorganizational factors.

3 Document management: Context representation, transformation and comparison for ad hoc product data exchange

Jingzhi Guo, Chengzheng Sun

November 2003 **Proceedings of the 2003 ACM symposium on Document engineering**

Full text available: pdf(275.65 KB) Additional Information: full citation, abstract, references, index terms

Product data exchange is the precondition of business interoperation between Web-based firms. However, millions of small and medium sized enterprises (SMEs) encode their Web product data in ad hoc formats for electronic product catalogues. This prevents product data exchange between business partners for business interoperation. To solve this problem, this paper has proposed a novel concept-centric catalogue engineering approach for representing, transforming and comparing semantic contexts in a ...

Keywords: XML product map, XPM, ad hoc product data exchange, concept, context comparison, context representation, context transformation, electronic commerce, electronic product catalogue, product data integration, semantics

4 On automated message processing in electronic commerce and work support systems:

speech act theory and expressive felicity
Steven O. Kimbrough, Scott A. Moore
October 1997 **ACM Transactions on Information Systems (TOIS)**, Volume 15 Issue 4

Full text available: pdf(502.20 KB) Additional Information: full citation, abstract, references, citings, index terms

Electronic messaging, whether in an office environment or for electronic commerce, is normally carried out in natural language, even when supported by information systems. For a variety of reasons, it would be useful if electronic messaging systems could have semantic access to, that is, access to the meanings and contents of, the messages they process. Given that natural language understanding is not a practicable alternative, there remain three approaches to delivering systems with semant ...

Keywords: electronic commerce, formal language for business communication, speech act theory

5 The C-ODA project: online access to electronic journals
Peter Kirstein, Goli Montasser-Kohsari
June 1996 **Communications of the ACM**, Volume 39 Issue 6

Full text available: pdf(1.24 MB) Additional Information: full citation, references, index terms, review

6 The advantages of electronic data interchange
François Bergeron, Louis Raymond
October 1992 **ACM SIGMIS Database**, Volume 23 Issue 4

Full text available: pdf(1.31 MB) Additional Information: full citation, abstract, citings, index terms

The purpose of this research was to identify success factors of EDI implementation and the benefits organizations could obtain by using this technology. The success factors found empirically in a field study of 140 Canadian enterprises are the organizational support, the implementation process, the control procedures and the level of EDI integration in the firm. The level of success also depends upon the level of imposition of EDI by partners. The study found evidence that, in order of importanc ...

7 Text-hypertext mutual conversion and hypertext interchange through SGML
Min Zheng, Roy Rada
December 1993 **Proceedings of the second international conference on Information and knowledge management**

Full text available: pdf(958.14 KB) Additional Information: full citation, references, index terms

8 Fast detection of communication patterns in distributed executions
Thomas Kunz, Michiel F. H. Seuren
November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Full text available: pdf(4.21 MB) Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

9 An N-dimensional data structure in support of electronic data interchange (EDI) translation
Georges Brigham, Edward Shaw
July 1991 **ACM SIGAPL APL Quote Quad , Proceedings of the international conference on APL '91**, Volume 21 Issue 4
Full text available: pdf(761.14 KB) Additional Information: full citation, abstract, references, citings, index terms

A method is described by which data in a database system are named using sets. The sets exist in an n-dimensional data space in which each axis represents a homogeneous set and all axes (sets) are orthogonal. Data are represented as mathematical functions of relationships between the sets. Data are named using an ordered combination of the names of the sets. An executable language is used to describe relationships between the sets and to query the database. This methodology lends itself quite co ...

10 Multimedia document architecture (panel session)
Stephen Bulick, Terry Crowley, Lester Ludwig, Jonathan Rosenberg
August 1990 **ACM SIGGRAPH 90 Panel Proceedings**
Full text available: pdf(4.35 MB) Additional Information: full citation, index terms

11 Software and document engineering: Supporting document and data views of source code
Michael L. Collard, Jonathan I. Maletic, Andrian Marcus
November 2002 **Proceedings of the 2002 ACM symposium on Document engineering**
Full text available: pdf(162.30 KB) Additional Information: full citation, abstract, references, citings, index terms

The paper describes the use of an XML format to store and represent program source code. A new XML application, srcML (SouRCe Markup Language), is presented. srcML presumes a document view of source code where information about the syntactic structure is layered over the original source code document. The resultant multi-layered document has a base layer of all the original text (and formatting). The second layer is the syntactic information, derived from the grammar of the programming language, ...

Keywords: XML, abstract syntax tree, markup language, program analysis, source code

12 Managing the software design documents with XML
Junichi Suzuki, Yoshikazu Yamamoto
September 1998 **Proceedings of the 16th annual international conference on Computer documentation**
Full text available: pdf(1.09 MB) Additional Information: full citation, references, index terms

Keywords: CASE data interchange, UML, XML, software model interchange

13 Workshop on testing, analysis and verification of web services (TAV-WEB) papers: Model interchange and integration for web services
Robert J. Hall, Andrea Zisman
September 2004 **ACM SIGSOFT Software Engineering Notes**, Volume 29 Issue 5

Full text available: pdf(296.52 KB) Additional Information: full citation, abstract, references, index terms

Large distributed systems are normally developed by combining various nodes that are produced by different stakeholders, using different technologies, languages, and formalisms. An example of this situation is found when developing web services applications. However, the heterogeneity and diversity of existing languages to express behavioral specifications (models) of systems do not support integration, sharing and reuse of models between different validation tools. In this paper we present an X ...

Keywords: OpenModel, behavior models, integration, interchange, validation

14 The case for design using the World Wide Web

Mário J. Silva, Randy H. Katz

January 1995 **Proceedings of the 32nd ACM/IEEE conference on Design automation**

Full text available: pdf(100.42 KB) Additional Information: full citation, references, citings, index terms

15 Business-to-business interactions: issues and enabling technologies

B. Medjahed, B. Benatallah, A. Bouguettaya, A. H. H. Ngu, A. K. Elmagarmid

May 2003 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 12 Issue 1

Full text available: pdf(558.34 KB) Additional Information: full citation, abstract, citings, index terms

Business-to-Business (B2B) technologies pre-date the Web. They have existed for at least as long as the Internet. B2B applications were among the first to take advantage of advances in computer networking. The Electronic Data Interchange (EDI) business standard is an illustration of such an early adoption of the advances in computer networking. The ubiquity and the affordability of the Web has made it possible for the masses of businesses to automate their B2B interactions. However, several issu ...

Keywords: B2B Interactions, Components, E-commerce, EDI, Web services, Workflows, XML

16 Data exchange in interorganizational relationships: review through multiple conceptual lenses

Wafa Elgarah, Natalia Falaleeva, Carol C. Saunders, Virginia Ilie, J. T. Shim, James. F. Courtney

February 2005 **ACM SIGMIS Database**, Volume 36 Issue 1

Full text available: pdf(400.76 KB) Additional Information: full citation, abstract, references, index terms

This paper explores the theoretical underpinning of data exchange research, specifically Electronic Data Interchange (EDI), over the period from 1993 to 2002. It identifies the underlying research paradigms applied to examination of data exchange, and determines conceptual and theoretical gaps in previous research on data exchange in interorganizational relationships (IORs). Sixty-eight articles are analyzed. Results suggest a predominant concern with the outcomes realized with EDI adoption and ...

Keywords: EDI, data exchange, interorganizational relationships, research paradigms, review

17 Pen computing: a technology overview and a vision

André Meyer

July 1995 **ACM SIGCHI Bulletin**, Volume 27 Issue 3

Full text available: pdf(5.14 MB) Additional Information: full citation, abstract, citings, index terms

This work gives an overview of a new technology that is attracting growing interest in public as well as in the computer industry itself. The visible difference from other technologies is in the use of a pen or pencil as the primary means of interaction between a user and a machine, picking up the familiar pen and paper interface metaphor. From this follows a set of consequences that will be analyzed and put into context with other emerging technologies and visions.Starting with a short historic ...

18 Status of standards

A. Lyman Chapin

April 1994 **ACM SIGCOMM Computer Communication Review**, Volume 24 Issue 2

Full text available: pdf(1.79 MB) Additional Information: full citation, index terms

19 Strategic directions in electronic commerce and digital libraries: towards a digital agora

Nabil Adam, Yelena Yesha

December 1996 **ACM Computing Surveys (CSUR)**, Volume 28 Issue 4

Full text available: pdf(244.34 KB) Additional Information: full citation, references, citings, index terms

20 Data management issues in electronic commerce: Conceptual modeling and specification generation for B2B business processes based on ebXML

HyoungDo Kim

March 2002 **ACM SIGMOD Record**, Volume 31 Issue 1

Full text available: pdf(457.97 KB) Additional Information: full citation, abstract, references

In order to support dynamic setup of business processes among independent organizations, a formal standard schema for describing the business processes is basically required. The ebXML framework provides such a specification schema called BPSS (Business Process Specification Schema) which is available in two stand-alone representations: a UML version, and an XML version. The former, however, is not intended for the direct creation of business process specifications, but for defining specificatio ...

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